# CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Byatarayanapura Sub Division,
BBMP.

31st July 2014

Dear Sir,

**Sub:** Testing of Materials.

As requested, the required tests were carried out for the samples supplied by you, for the work of **'Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits'.**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Deputy Quality Manager**

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Assistant Executive Engineer
Byatarayanapura Sub Division
B B M P Bangalore

# CIVILTECH LABS

## TEST REPORT ON FINE AGGREGATES Ref:IS:383/2386

| | |
|---|---|
| Name of the Client | AEE, Byatarayanapura Sub Division, BBMP |
| Name of Work | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| Agency Name | M/s. K. R. I. D. L. |

| Sample | Date of Testing | Specific Gravity | IS Sieve designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement As Per IS 383-1970 | | | | Grading Zone |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ZONE-I | ZONE-II | ZONE-III | ZONE-IV | |
| Fine Aggregates | 30/07/2014 | 2.56 | 10 | 100 | 100 | 100 | 100 | 100 | II |
| | | | 4.75 | 97 | 90-100 | 90-100 | 90-100 | 95-100 | |
| | | | 2.36 | 85 | 60-95 | 75-100 | 85-100 | 95-100 | |
| | | | 1.18 | 73 | 30-70 | 55-90 | 75-100 | 90-100 | |
| | | | 0.6 | 42 | 15-34 | 35-59 | 60-79 | 80-100 | |
| | | | 0.3 | 24 | 5-20 | 8-30 | 12-40 | 15-50 | |
| | | | 0.15 | 7 | 0-10 | 0-10 | 0-10 | 0-15 | |

**Note:**

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

CIVIL TECH LABS
#5, I Floor, ICross
Sri... Colony, Mission Road
BANGALORE-560 027

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

# CIVILTECH LABS

## TEST REPORT ON CEMENT

| | |
|---|---|
| Name of the Client | AEE, Byatarayanapura Sub Division, BBMP |
| Name of Work | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| Agency Name | M/s. K. R. I. D. L. |

| Tests on Cement | Test Date | Tests | Test Method As Per IS & Apparatus | | Results | | Requirements As Per IS 8112 1989 | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | IS Code | Method | Value | Unit | | |
| | 30/07/2014 | Initial Setting Time | **IS-4031 (Part-5) 1988** | VICAT | 52 | min | Not Less Than 30 Minutes | Satisfies Requirement |
| | | Final Setting Time | **IS-4031 (Part-5) 1988** | VICAT | 488 | min | Not More Than 600 Minutes | Satisfies Requirement |
| | | Soundness | **IS-4031 (Part-3) 1988** | LE-CHATELIER | 3 | mm | Not More Than 10 mm | Satisfies Requirement |

**Note:**

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4.The results are based on the test conducted on samples supplied by the Client

CIVIL TECH LABS
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Assistant Executive Engineer,
Byatarayanapura Sub Division
B.B.M.P. Bangalore

Lab Incharge
Civil Tech Labs

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# CIVILTECH LABS

## TEST REPORT ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

| | |
|---|---|
| Name of the Client | AEE, Byatarayanapura Sub Division, BBMP |
| Name of Work | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| Agency Name | M/s. K. R. I. D. L. |

| Sample | Date of Testing | Specific Gravity | Absorption in % | IS Sieve Designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement As Per IS 383-1970 | Remarks |
|---|---|---|---|---|---|---|---|
| 20mm Down Graded | 30/07/2014 | 2.63 | 0.32 | **40** | 100 | **100** | Satisfies The Requirement |
| | | | | **20** | 99 | **95-100** | |
| | | | | **10** | 45 | **25-55** | |
| | | | | **4.75** | 8 | **0-10** | |

**Note:**

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4. The results are based on the test conducted on samples supplied by the client.

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## TEST REPORT ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

| | |
|---|---|
| Name of the Client | AEE, Byatarayanapura Sub Division, BBMP |
| Name of Work | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| Agency Name | M/s. K. R. I. D. L. |

| Sample | Date of Testing | Specific Gravity | Absorption in % | IS Sieve designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement As Per IS 383-1970 | Remarks |
|---|---|---|---|---|---|---|---|
| 40mm Down Graded | 30/07/2014 | 2.66 | 0.28 | **80** | 100 | **100** | Satisfies The Requirements |
| | | | | **40** | 98 | **95-100** | |
| | | | | **20** | 57 | **30-70** | |
| | | | | **10** | 29 | **10-35** | |
| | | | | **4.75** | 4 | **0-5** | |

**Note:**

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# CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Byatarayanapura Sub Division,
BBMP.

08th August 2014

Dear Sir,

**Sub:** Testing of Reinforcement Steel.

As requested, the required tests were carried out for the Reinforcement Steel samples supplied by you, for the work of **'Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits.**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Deputy Quality Manager**

Assistant Executive Engineer
Byatarayanapura Sub Division

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# CIVIL TECH LABS

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of the Agency** | M/s. K. R. I. D.L. |
| **Date of Test** | 08/08/2014 |

| Sl.No. | Description | Result | IS 1786-2008 Min. Requirements | Remarks |
|---|---|---|---|---|
| 1 | Measured Diameter mm | 12 | 12 | Satisfactory |
| 2 | Wt/m Length (Kg/m) | 0.889 | 0.888 | Satisfactory |
| 3 | Bend & RebendTest | Pass | Should not Crack or Fracture | Satisfactory |
| 4 | Elongation (%) | 15.4 | 14.5 | Satisfactory |
| 5 | Yield Stress(N/Sq.mm) | 420 | 415 | Satisfactory |
| 6 | U T S (N/Sq.mm) | 525 | 485 | Satisfactory |

**Note:**

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 10mm

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of the Agency** | M/s. K. R. I. D.L. |
| **Date of Testing** | 08/08/2014 |

| Sl.No. | Description | Result | IS 1786-2008 Min. Requirements | Remarks |
|---|---|---|---|---|
| 1 | Measured Diameter mm | 10 | 10 | Satisfactory |
| 2 | Wt/m Length (Kg/m) | 0.619 | 0.617 | Satisfactory |
| 3 | Bend & RebendTest | Pass | Should not Crack or Fracture | Satisfactory |
| 4 | Elongation (%) | 15.2 | 14.5 | Satisfactory |
| 5 | Yield Stress(N/Sq.mm) | 419 | 415 | Satisfactory |
| 6 | U T S (N/Sq.mm) | 524 | 485 | Satisfactory |

**Note:**

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Lab Incharge
Civil Tech Labs

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Byatarayanapura Sub Division,
BBMP.

24th September 2014

Dear Sir,

**Sub:** Testing of Wet Mix Macadam.

As requested, the required tests were carried out for the Wet Mix Macadam samples supplied by you, for the work of **'Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits.**

Please find the enclosed Test Report of the above.

**Thanking You,**
**For Civil Tech Labs**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Deputy Quality Manager**

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore.

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# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

TEST ON WMM MIX

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of the Agency** | M/s. K. R. I. D.L. |
| **Date of Testing** | 24/09/2014 |
| **Reference** | MORTH Table 400-11 |

| IS Sieve Designation (mm) | % By Weight Passing IS Sieve | Actual % By Weight Passing IS Sieve | Remarks |
|---|---|---|---|
| 53 | 100 | 100 | **Satisfies Requirements** |
| 45 | 95-100 | 98.6 | |
| 22.4 | 60-80 | 76.3 | |
| 11.2 | 40-60 | 55.2 | |
| 4.75 | 25-40 | 34.9 | |
| 2.36 | 15-30 | 22.8 | |
| 0.6 | 8-22 | 17.1 | |
| 0.075 | 0-8 | 6.6 | |

**Note:**

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4.The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore

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# CIVIL TECH LABS

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T-2654


To,

Assistant Executive Engineer
Byatarayanapura Sub Division,
BBMP.

29th September 2014

Dear Sir,

**Sub:** Testing of Semi Dense Bituminous Concrete.

As requested, the required tests were carried out for the Semi Dense Bituminous Concrete samples supplied by you, for the work of **'Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits.**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Deputy Quality Manager**

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

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# CIVIL TECH LABS

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

**TEST ON THE DETERMINATION OF BITUMEN CONTENT ON SEMI DENSE BITUMINOUS CONCRETE MIX-GRADE 2**

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of the Agency** | M/s. K. R. I. D. L. |
| **Date of Testing** | 28/09/2014 |

**A)**

| Sl. No. | Test | Test Method | Technical Reference |
|---|---|---|---|
| 1 | Extraction of mineral aggregate | **Test Method A (Centrifuge Method)** | **ASTM: D2172/ D2172M-11** |
| 2 | Determination of amount of mineral matter/fines in the extract | **Ashing Method** | |

**B)**

| **Specification: As Per MORTH (4th Revision) Table 500-15, Bitumen Content for SDBC Grade-2 is MIN 5%** | | |
|---|---|---|
| **Sl. No.** | **Description** | **Values** |
| 1 | Weight of bituminous mixture before extraction test, **$W_1$ g** | **2000** |
| 2 | Weight of mineral aggregate obtained from centrifuge extractor, **$W_2$ g** | **1883.5** |
| 3 | Weight of mineral matter in the total volume of extract (by ashing), **$W_3$ g** | **12.8** |
| 4 | Total weight of aggregate in the bituminous mixture, **$W_4$ g = ($W_2$ +$W_3$) g** | **1896.3** |
| 5 | Total weight of Bitumen extracted from the mixture, **$W_5$ g = ($W_1$-$W_4$) g** | **103.7** |
| 6 | Bitumen content in %, **($W_5$/$W_1$) %** | **5.19** |

| **Remarks** | **Satisfies the requirements.** |
|---|---|

**Note:**

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4. The results are based on the test conducted on samples supplied by the customer.

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore

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**Lab Incharge**
**Civil Tech Labs**

CIVIL TECH LABS BANGALORE

# CIVIL TECH LABS

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

**GRADATION TEST ON SEMI DENSE BITUMINOUS CONCRETE MIX GRADE - 2**

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of the Agency** | M/s. K. R. I. D.L. |
| **Date of Testing** | 28/09/2014 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-15 for SDBC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 13.2 | 100 | **100** | **Satisfies the requirements** |
| 9.5 | 90-100 | **98.8** | |
| 4.75 | 35-51 | **46.3** | |
| 2.36 | 24-39 | **27.1** | |
| 1.18 | 15-30 | **26.4** | |
| 0.3 | 9-19 | **15.1** | |
| 0.075 | 3-8 | **6.4** | |

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

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# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Byatarayanapura Sub Division,
BBMP.

19th September 2014

Dear Sir,

**Sub:** Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

**For Civil Tech Labs,**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Deputy Quality Manager**

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

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# CIVIL TECH LABS

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## TEST REPORT

### COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of Agency** | M/s. K. R. I. D.L. |
| **Grade of Concrete** | M-20 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 mm² |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/mm²) | Avg Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC-Work | 22/08/2014 | 19/09/2014 | 28 | 8.15 | 470 | **20.89** | **21.26** |
| 2 | | | | | 8.16 | 480 | **21.33** | |
| 3 | | | | | 8.17 | 485 | **21.56** | |

**Note:**

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4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

# CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

### COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Byatarayanapura Sub Division, BBMP |
| **Name of Work** | Improvements to Roads and Drains at Sarayipalya Main Road and Cross Roads in Ward No. 06, Thanisandra Village Limits. |
| **Name of Agency** | M/s. K. R. I. D.L. |
| **Grade of Concrete** | M-15 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 mm² |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/mm²) | Avg Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC-Work | 21/08/2014 | 18/09/2014 | 28 | 8.14 | 344 | **15.29** | **15.38** |
| 2 | | | | | 8.16 | 346 | **15.38** | |
| 3 | | | | | 8.17 | 348 | **15.47** | |

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

Assistant Executive Engineer
Byatarayanapura Sub Division
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